Title: DOWNLOADING SOFTWARE FROM A SERVER TO A CLIENT
Inventor: Joe F. Britt, Jr., Andrew T. McFadden, Phillip Y. Goldman, Bruce A. Leak
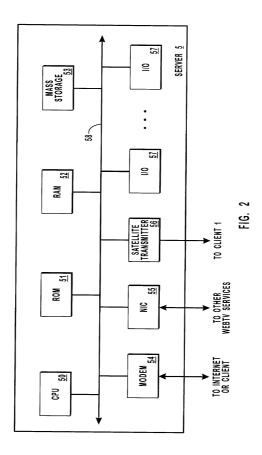Docket No.: 14531.5.1.5

1 / 10

FIG. 1

Title: DOWNLOADING SOFTWARE FROM A SERVER TO A CLIENT
Inventor: Joe F. Britt, Jr., Andrew T. McFadden, Phillip Y. Goldman, Bruce A. Leak
Docket No.: 14531.5.1.5

2 / 10

FIG. 2

Title: DOWNLOADING SOFTWARE FROM A SERVER TO A CLIENT
Inventor: Joe F. Britt, Jr., Andrew T. McFadden, Phillip Y. Goldman, Bruce A. Leak
Docket No.: 14531.5.1.5

3 / 10

FIG. 3

Title: DOWNLOADING SOFTWARE FROM A SERVER TO A CLIENT
Inventor: Joe F. Britt, Jr., Andrew T. McFadden, Phillip Y. Goldman, Bruce A. Leak
Docket No.: 14531.5.1.5

4 / 10

FIG. 4

Title: DOWNLOADING SOFTWARE FROM A SERVER TO A CLIENT
Inventor: Joe F. Britt, Jr., Andrew T. McFadden, Phillip Y. Goldman, Bruce A. Leak
Docket No.: 14531.5.1.5

5 / 10

FIG. 5

FIG. 6

Title: DOWNLOADING SOFTWARE FROM A SERVER TO A CLIENT
Inventor: Joe F. Britt, Jr., Andrew T. McFadden, Phillip Y. Goldman, Bruce A. Leak
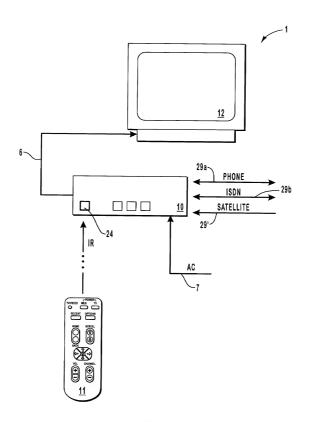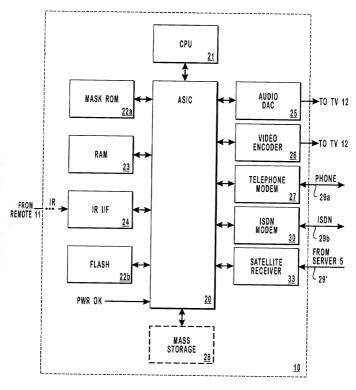Docket No.: 14531.5.1.5

6 / 10

FIG. 7

Title: DOWNLOADING SOFTWARE FROM A SERVER TO A CLIENT
Inventor: Joe F. Britt, Jr., Andrew T. McFadden, Phillip Y. Goldman, Bruce A. Leak
Docket No.: 14531.5.1.5

7 / 10

ENTER

801 — DOWNLOAD REQUEST FOUND IN FLASH ?
— NO
— YES

802 — CONNECTION SCRIPT FOUND IN FLASH ?
— NO → USE DEFAULT (800) SCRIPT IN MASK ROM TO DIAL WEBTV SERVICE AND OBTAIN LOCAL SCRIPT — 809
— YES

803 — CONNECT LOCALLY USING LOCAL SCRIPT

804 — IP ADDRESS, PORT, PATH, INFO IN FLASH ?
— NO → CONNECT TO DEFAULT UPGRADE SERVER USING DEFAULT IP ADDRESS, PORT, PATH INFO. — 810
— YES

808 — START BROWSER NORMALLY

810 → REQUEST DEFAULT UPGRADE FILE — 811

805 — CONNECT TO SPECIFIED SERVER

806 — REQUEST SPECIFIED FILE

807 — DOWNLOAD FILE

EXIT

FIG. 8

Title: DOWNLOADING SOFTWARE FROM A SERVER TO A CLIENT
Inventor: Joe F. Britt, Jr., Andrew T. McFadden, Phillip Y. Goldman, Bruce A. Leak
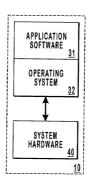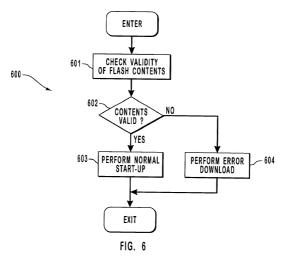Docket No.: 14531.5.1.5

8 / 10

```
            ┌─────────┐
            │  START  │
            └────┬────┘
                 │
                 ▼                          ╱ 900
        ┌──────────────────┐
  901 ──│  SERVER GAINS    │
        │ ACCESS TO SOFTWARE│
        │    UPGRADE       │
        └────────┬─────────┘
                 │
                 ▼
  902          ╱╲
             ╱    ╲
           ╱ CLIENT TO ╲      NO
          ╱ RECEIVE UPGRADE╲──────┐
           ╲     ?      ╱         │
             ╲        ╱           │
               ╲    ╱             │
                 │ YES            │
                 ▼                │
        ┌──────────────────┐      │
  903 ──│ TRANSMIT UPGRADE │      │
        │ VIA SATELLITE LINK│     │
        └────────┬─────────┘      │
                 │◄───────────────┘
                 ▼
            ┌─────────┐
            │   END   │
            └─────────┘
```
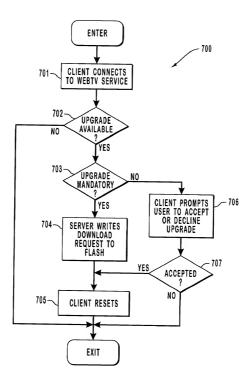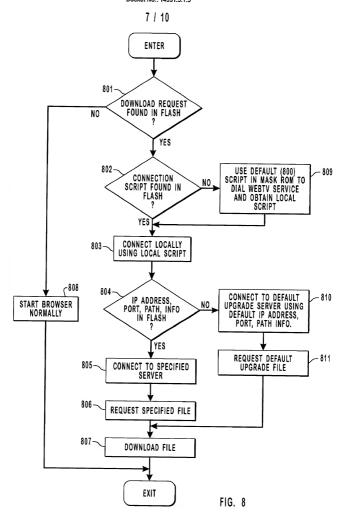
FIG. 9

Title: DOWNLOADING SOFTWARE FROM A SERVER TO A CLIENT
Inventor: Joe F. Britt, Jr., Andrew T. McFadden, Phillip Y. Goldman, Bruce A. Leak
Docket No.: 14531.5.1.5

9 / 10

```
                    ┌──────────┐
                    │  ENTER   │
                    └──────────┘                    ┌─ 1000
                          │
                          ▼
              ┌──────────────────────┐
              │   USE DEFAULT (800)   │
      1001 ─  │   CONNECTION SCRIPT   │
              │ IN MASK ROM TO CONNECT│
              │    TO WEBTV SERVICE   │
              │ AND OBTAIN LOCAL SCRIPT│
              └──────────────────────┘
                          │
                          ▼
              ┌──────────────────────┐
      1002 ─  │  DISCONNECT FROM     │
              │   WEBTV SERVICE      │
              └──────────────────────┘
                          │
                          ▼
              ┌──────────────────────┐
      1003 ─  │  CONNECT TO WEBTV    │
              │ SERVICE USING LOCAL  │
              │  CONNECTION SCRIPT   │
              └──────────────────────┘
                          │
                          ▼
              ┌──────────────────────┐
              │  CONNECT TO DEFAULT  │
      1004 ─  │ UPGRADE SERVER USING │
              │  DEFAULT IP ADDRESS, │
              │    PORT, PATH INFO.  │
              │ STORED IN MASK ROM   │
              └──────────────────────┘
                          │
                          ▼
                    ┌──────────┐
                    │   EXIT   │
                    └──────────┘
```

FIG. 10

Title: DOWNLOADING SOFTWARE FROM A SERVER TO A CLIENT
Inventor: Joe F. Britt, Jr., Andrew T. McFadden, Phillip Y. Goldman, Bruce A. Leak
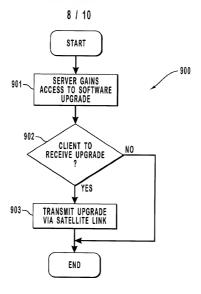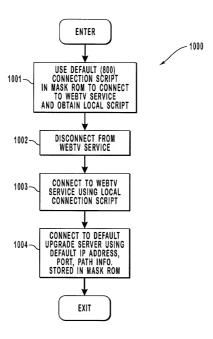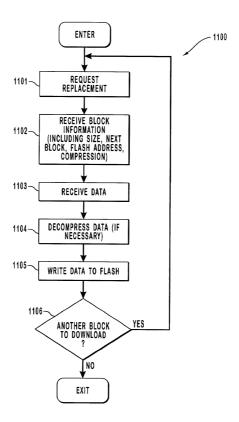Docket No.: 14531.5.1.5

10 / 10

```
                    ┌──────────────┐
                    │    ENTER     │                    ─── 1100
                    └──────┬───────┘
                           │
                           ▼
                    ┌──────────────┐
          1101 ─────│   REQUEST    │
                    │ REPLACEMENT  │
                    └──────┬───────┘
                           │
                           ▼
                    ┌──────────────┐
                    │ RECEIVE BLOCK│
                    │ INFORMATION  │
          1102 ─────│(INCLUDING SIZE, NEXT│
                    │BLOCK, FLASH ADDRESS,│
                    │ COMPRESSION) │
                    └──────┬───────┘
                           │
                           ▼
                    ┌──────────────┐
          1103 ─────│ RECEIVE DATA │
                    └──────┬───────┘
                           │
                           ▼
                    ┌──────────────┐
          1104 ─────│DECOMPRESS DATA (IF│
                    │  NECESSARY)  │
                    └──────┬───────┘
                           │
                           ▼
                    ┌──────────────┐
          1105 ─────│WRITE DATA TO FLASH│
                    └──────┬───────┘
                           │
                           ▼
              1106 ─── ◇ANOTHER BLOCK◇   YES
                       ◇TO DOWNLOAD◇ ─────────►
                       ◇    ?     ◇
                           │
                           │ NO
                           ▼
                    ┌──────────────┐
                    │    EXIT      │
                    └──────────────┘
```

FIG. 11